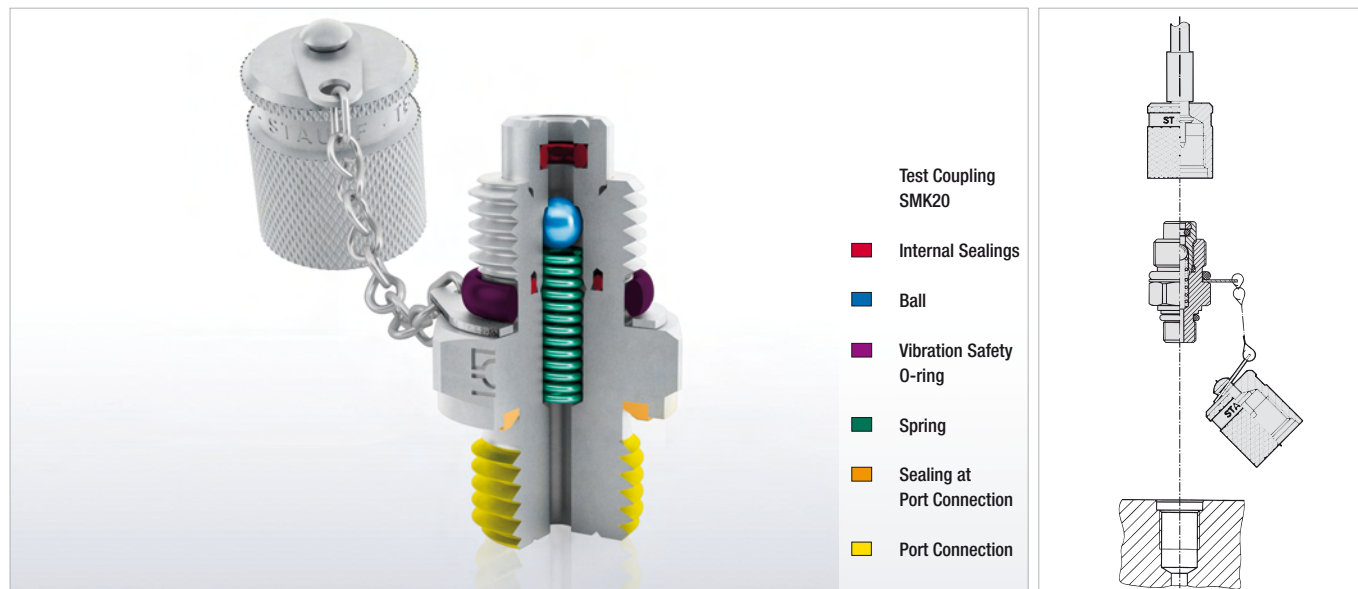


## Test Coupling with Ball Check



### Fast Coupling for

- Monitoring and control of pressure
- Venting
- Sampling in high- and low-pressure systems

### Advantages

- Test system at working pressure
- Leak proof connection before **ball check** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap

### Working Pressure

- Max. working pressure 630 bar / 9137 PSI  
For SMK Type G and K the recommended working pressure of fitting manufacturer should be noted.
- Connection under pressure up to 400 bar / 5801 PSI max.

### Materials

- **Metal Parts:**  
Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
Optional:  
Stainless Steel **V2A** (1.4305 / AISI 303) on request  
Stainless Steel **V4A** (1.4571 / AISI 316Ti) on request

For ordering "V2A" or "V4A" please replace "C6F" with "V2A" or "V4A".

- **Ball:** Stainless Steel

### Sealings:

**P = NBR (Buna-N®)**

(Temperature range -20 °C ... +100 °C / -4 °F ... +212 °F)

Note: Internal sealings made of FPM, even for standard NBR-type.

**V = FPM (Viton®)\***

(Temperature range -20 °C ... +200 °C / -4 °F ... +392 °F)

**\* Standard option for North America is FPM (Viton®)**

**E = EPDM Ethylene Propylene Diene Monomer Rubber**

(for Brake fluid,

Temperature range -40 °C ... +150 °C / -40 °F ... +302 °F)

For ordering FPM or EPDM sealings please replace "P" with "V" or "E".

Vibration safety O-ring made of NBR (Buna-N®) (standard).

### Media

- Suitable for hydraulic oils and other Mineral oil based fluids  
(Check compatibility of sealing material)
- For use with other liquid media please consult STAUFF

### Protection Cap





- The complete STAUFF-Test-20-type-SMK range is also available with a hexagonal protection cap made of steel or plastic protection cap.

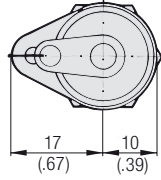
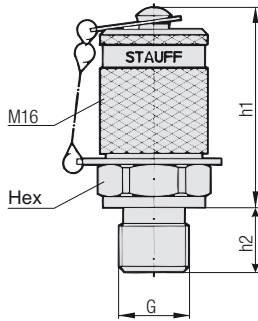
For ordering the hexagonal protection cap version please add "-SK" to the order code.

(e.g. SMK20-M10x1-PA-SK-C6F)

For ordering the plastic protection cap version please add "-KK" to the order code.

(e.g. SMK20-M10x1-PA-KK-C6F)

<b>SMK20</b> Test Coupling with Port Connection	<b>SMK20 Type G</b> Test Coupling complete with Straight Fitting	<b>SMK20 Type K</b> Test Coupling for 24° Cone Fittings	<b>SMK20-JIC</b> Test Coupling SMK-JIC Connection (to SAE J514)	<b>SSK20</b> Bulkhead
				



## Test Coupling with Port Connection SMK20



Thread G	Sealing	Working Pressure (bar/psi)	Dimensions (mm/in)			Order Codes	
			h1	h2	Hex	NBR	FPM* (Standard Option-North America)
M8 x 1	Type A	250	38	8,5	17	SMK20-M8x1-PA-C6F	SMK20-M8x1-VA-C6F
		3625	1.50	.33	.67		
M10 x 1	Type A	630	38	9,8	17	SMK20-M10x1-PA-C6F	SMK20-M10x1-VA-C6F
		9137	1.50	.39	.67		
M10 x 1	Type B	400	37	8	17	SMK20-M10x1-PB-C6F	SMK20-M10x1-VB-C6F
		5801	1.46	.31	.67		
M12 x 1,5	Type B	630	37	12	17	SMK20-M12x1,5-PB-C6F	SMK20-M12x1,5-VB-C6F
		9137	1.46	.47	.67		
M14 x 1,5	Type B	630	37	12	19	SMK20-M14x1,5-PB-C6F	SMK20-M14x1,5-VB-C6F
		9137	1.46	.47	.75		
M16 x 1,5	Type B	630	37	12	22	SMK20-M16x1,5-PB-C6F	SMK20-M16x1,5-VB-C6F
		9137	1.46	.47	.87		
G1/8	Type B	400	39	8	17	SMK20-G1/8-PB-C6F	SMK20-G1/8-VB-C6F
		5801	1.54	.31	.67		
G1/4	Type B	630	37	12	19	SMK20-G1/4-PB-C6F	SMK20-G1/4-VB-C6F
		9137	1.46	.47	.75		
G3/8	Type B	630	37	12	22	SMK20-G3/8-PB-C6F	SMK20-G3/8-VB-C6F
		9137	1.46	.47	.87		
M10 x 1	Type C	400	39	8	17	SMK20-M10x1-PC-C6F	SMK20-M10x1-VC-C6F
		5801	1.54	.31	.67		
M12 x 1,5	Type C	630	37	12	17	SMK20-M12x1,5-PC-C6F	SMK20-M12x1,5-VC-C6F
		9137	1.46	.47	.67		
M14 x 1,5	Type C	630	37	12	19	SMK20-M14x1,5-PC-C6F	SMK20-M14x1,5-VC-C6F
		9137	1.46	.47	.75		
M16 x 1,5	Type C	630	37	12	22	SMK20-M16x1,5-PC-C6F	SMK20-M16x1,5-VC-C6F
		9137	1.46	.47	.87		
G1/8	Type C	400	39	8	17	SMK20-G1/8-PC-C6F	SMK20-G1/8-VC-C6F
		5801	1.54	.31	.67		
G1/4	Type C	630	37	12	19	SMK20-G1/4-PC-C6F	SMK20-G1/4-VC-C6F
		9137	1.46	.47	.75		
G3/8	Type C	630	37	12	22	SMK20-G3/8-PC-C6F	SMK20-G3/8-VC-C6F
		9137	1.46	.47	.87		
G1/2	Type C	630	39	14	27	SMK20-G1/2-PC-C6F	SMK20-G1/2-VC-C6F
		9137	1.54	.55	1.06		
R1/8 K	Type D	400	37	8	17	SMK20-R1/8K-PD-C6F	SMK20-R1/8K-VD-C6F
		5801	1.46	.31	.67		
R1/4 K	Type D	630	35	12	17	SMK20-R1/4K-PD-C6F	SMK20-R1/4K-VD-C6F
		9137	1.38	.47	.67		
1/8 NPT	Type D	400	36	10	17	SMK20-1/8NPT-PD-C6F	SMK20-1/8NPT-VD-C6F
		5801	1.42	.39	.67		
1/4 NPT	Type D	630	35	15	17	SMK20-1/4NPT-PD-C6F	SMK20-1/4NPT-VD-C6F
		9137	1.38	.59	.67		
5/16-24 UNF	Type E	400	38	7,5	17	SMK20-5/16UNF-PE-C6F	SMK20-5/16UNF-VE-C6F
		5.801	1.50	.30	.67		
7/16-20 UNF	Type E	630	38	9,1	17	SMK20-7/16UNF-PE-C6F	SMK20-7/16UNF-VE-C6F
		9137	1.50	.36	.67		
1/2-20 UNF	Type E	630	38	9,2	17	SMK20-1/2UNF-PE-C6F	SMK20-1/2UNF-VE-C6F
		9137	1.50	.36	.67		
9/16-18 UNF	Type E	630	37	10	19	SMK20-9/16UNF-PE-C6F	SMK20-9/16UNF-VE-C6F
		9137	1.46	.39	.75		
3/4-16 UNF	Type E	630	37	11,1	19	SMK20-3/4UNF-PE-C6F	SMK20-3/4UNF-VE-C6F
		9137	1.46	.44	.75		
M10 x 1	Type E	630	38	9,5	17	SMK20-M10x1-PE-C6F	SMK20-M10x1-VE-C6F
		9137	1.50	.37	.67		
M12 x 1,5	Type E	630	37	11	17	SMK20-M12x1,5-PE-C6F	SMK20-M12x1,5-VE-C6F
		9137	1.46	.43	.67		
M14 x 1,5	Type E	630	38	11	19	SMK20-M14x1,5-PE-C6F	SMK20-M14x1,5-VE-C6F
		9137	1.50	.43	.75		

### Metal Parts

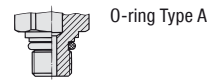
Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

### Sealings

For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

\* Standard option for North America is FPM (Viton®).

### Sealing Details



O-ring Type A



Metal Joint Type B



Elastomeric Sealing Type C



Taper Type D  
(suitable sealant required)



O-ring Type E

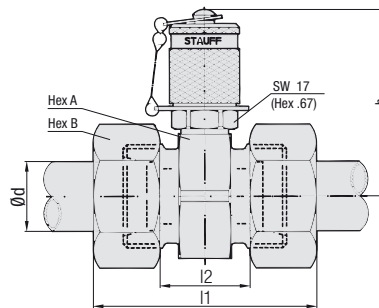
### Protection Cap

Standard material: Steel  
 For ordering the hexagonal protection cap version please add "-SK" to the order code. (e.g. SMK20-M10x1-PA-SK-C6F)  
 For ordering the plastic protection cap version please add "-KK" to the order code. (e.g. SMK20-M10x1-PA-KK-C6F)

For further information on materials, sealings or protection caps, please see page B4.

Other port connections and sealings on request.  
 Please consult STAUFF for further information.

**Test Coupling complete with Straight Fitting  
SMK20 Type G**



▪ Compression ring fittings acc. to ISO 8434-1 / DIN 2353

**Metal Parts**

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

**Sealings**

For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

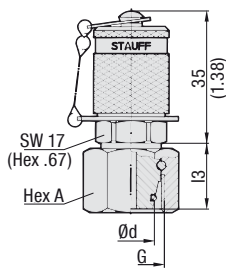
\* **Standard option for North America is FPM (Viton®).**

**Protection Cap**

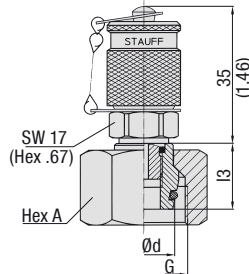
Standard material: Steel  
 For ordering the hexagonal protection cap version please add "-SK" to the order code. (e.g. SMK20-08L-PG-SK-C6F)  
 For ordering the plastic protection cap version please add "-KK" to the order code. (e.g. SMK20-08L-PG-KK-C6F)

For further information on materials, sealings or protection caps, please see page B4.

Series	PN ( <sup>mm</sup> / <sub>rs</sub> )	Pipe Ø d	Dimensions ( <sup>mm</sup> / <sub>m</sub> )					Order Codes	
			~I1	I2	h	Hex A	Hex B	NBR	FPM* (Standard Option-North America)
L	315 4568	6	51	21	49	24	14	SMK20-06L-PG-C6F	SMK20-06L-VG-C6F
			2.01	.83	1.93	.94	.55		
		8	51	21	49	24	17	SMK20-08L-PG-C6F	SMK20-08L-VG-C6F
			2.01	.83	1.93	.94	.67		
		10	53	23	49	24	19	SMK20-10L-PG-C6F	SMK20-10L-VG-C6F
			2.09	.91	1.93	.94	.75		
	12	53	23	50,5	27	22	SMK20-12L-PG-C6F	SMK20-12L-VG-C6F	
		2.09	.91	1.99	1.06	.87			
	15	55	25	52	30	27	SMK20-15L-PG-C6F	SMK20-15L-VG-C6F	
		2.17	.98	2.05	1.18	1.06			
	18	57	24	53	32	32	SMK20-18L-PG-C6F	SMK20-18L-VG-C6F	
		2.24	.94	2.09	1.26	1.26			
160 2320	22	61	28	55	36	36	SMK20-22L-PG-C6F	SMK20-22L-VG-C6F	
		2.40	1.10	2.17	1.42	1.42			
	28	61	28	57,5	41	41	SMK20-28L-PG-C6F	SMK20-28L-VG-C6F	
		2.40	1.10	2.26	1.61	1.61			
35	69	26	60	46	50	SMK20-35L-PG-C6F	SMK20-35L-VG-C6F		
	2.72	1.02	2.36	1.81	1.97				
42	71	25	64,5	55	60	SMK20-42L-PG-C6F	SMK20-42L-VG-C6F		
	2.80	.98	2.54	2.17	2.36				
S	630 9137	6	55	25	49	24	17	SMK20-06S-PG-C6F	SMK20-06S-VG-C6F
			2.17	.98	1.93	.94	.67		
		8	55	25	49	24	19	SMK20-08S-PG-C6F	SMK20-08S-VG-C6F
			2.17	.98	1.93	.94	.75		
		10	57	24	49	24	22	SMK20-10S-PG-C6F	SMK20-10S-VG-C6F
			2.24	.94	1.93	.94	.87		
	12	57	24	49	24	24	SMK20-12S-PG-C6F	SMK20-12S-VG-C6F	
		2.24	.94	1.93	.94	.94			
	14	63	27	50,5	27	27	SMK20-14S-PG-C6F	SMK20-14S-VG-C6F	
		2.50	1.06	1.99	1.06	1.06			
	400 5801	16	63	26	52	30	30	SMK20-16S-PG-C6F	SMK20-16S-VG-C6F
			2.50	1.02	2.05	1.18	1.18		
		20	69	26	55	36	36	SMK20-20S-PG-C6F	SMK20-20S-VG-C6F
			2.72	1.02	2.17	1.42	1.42		
		25	75	27	57,5	41	46	SMK20-25S-PG-C6F	SMK20-25S-VG-C6F
			2.95	1.06	2.26	1.61	1.81		
	30	81	28	60	46	50	SMK20-30S-PG-C6F	SMK20-30S-VG-C6F	
		3.19	1.10	2.36	1.81	1.97			
315 4568	38	91	29	64,5	55	60	SMK20-38S-PG-C6F	SMK20-38S-VG-C6F	
		3.58	1.14	2.54	2.17	2.36			



Version A



Version B

## Test Coupling for 24° Cone Fittings SMK20 Type K



Series	PN (bar / psi)	Pipe Ø d	Dimensions (mm / in)		Thread	Version	Order Codes	
			I3	Hex A			NBR	FPM* (Standard Option-North America)
L	315 4568	6	15,5	14	M12 x 1,5	A	SMK20-06L-PK-C6F	SMK20-06L-VK-C6F
			.61	.55				
		8	15,5	17	M14 x 1,5	A	SMK20-08L-PK-C6F	SMK20-08L-VK-C6F
			.61	.67				
		10	16,5	19	M16 x 1,5	A	SMK20-10L-PK-C6F	SMK20-10L-VK-C6F
			.65	.75				
	12	17,5	22	M18 x 1,5	A	SMK20-12L-PK-C6F	SMK20-12L-VK-C6F	
		.69	.87					
	160 2320	15	21	27	M22 x 1,5	B	SMK20-15L-PK-GS-C6F	SMK20-15L-VK-GS-C6F
			.83	1.06				
		18	19,5	32	M26 x 1,5	B	SMK20-18L-PK-GS-C6F	SMK20-18L-VK-GS-C6F
			.77	1.26				
22		20,5	36	M30 x 2	B	SMK20-22L-PK-GS-C6F	SMK20-22L-VK-GS-C6F	
		.81	1.42					
28	25	41	M36 x 2	B	SMK20-28L-PK-GS-C6F	SMK20-28L-VK-GS-C6F		
	.98	1.61						
35	30	50	M45 x 2	B	SMK20-35L-PK-GS-C6F	SMK20-35L-VK-GS-C6F		
	1.18	1.97						
42	31	60	M52 x 2	B	SMK20-42L-PK-GS-C6F	SMK20-42L-VK-GS-C6F		
	1.22	2.36						
S	630 9137	6	14,5	17	M14 x 1,5	A	SMK20-06S-PK-C6F	SMK20-06S-VK-C6F
			.57	.67				
		8	16,5	19	M16 x 1,5	A	SMK20-08S-PK-C6F	SMK20-08S-VK-C6F
			.65	.75				
		10	16,5	22	M18 x 1,5	A	SMK20-10S-PK-C6F	SMK20-10S-VK-C6F
	.65		.87					
	12	17,5	24	M20 x 1,5	A	SMK20-12S-PK-C6F	SMK20-12S-VK-C6F	
		.69	.94					
	400 5801	14	19,5	27	M22 x 1,5	B	SMK20-14S-PK-GS-C6F	SMK20-14S-VK-GS-C6F
			.77	1.06				
		16	18	30	M24 x 1,5	B	SMK20-16S-PK-GS-C6F	SMK20-16S-VK-GS-C6F
			.71	1.18				
		20	24	36	M30 x 2	B	SMK20-20S-PK-GS-C6F	SMK20-20S-VK-GS-C6F
	.94		1.42					
	25	26	46	M36 x 2	B	SMK20-25S-PK-GS-C6F	SMK20-25S-VK-GS-C6F	
1.02		1.81						
30	30	50	M42 x 2	B	SMK20-30S-PK-GS-C6F	SMK20-30S-VK-GS-C6F		
	1.18	1.97						
315 4568	38	34	60	M52 x 2	B	SMK20-38S-PK-GS-C6F	SMK20-38S-VK-GS-C6F	
		1.34	2.36					

- For DKO connection
- According to ISO 8434-1 / DIN 2353
- Version A: one-piece design
- Version B: screwed design

### Metal Parts

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

### Sealings

For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

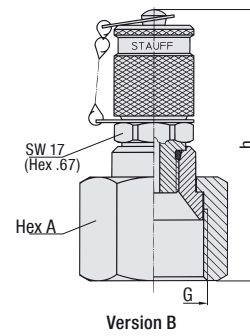
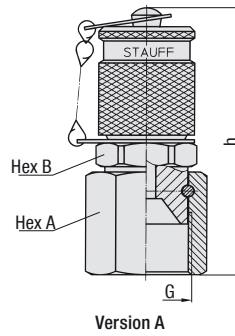
\* Standard option for North America is FPM (Viton®).

### Protection Cap

Standard material: Steel  
 For ordering the hexagonal protection cap version please add "-SK" to the order code. (e.g. SMK20-08L-PK-SK-C6F)  
 For ordering the plastic protection cap version please add "-KK" to the order code. (e.g. SMK20-08L-PK-KK-C6F)

For further information on materials, sealings or protection caps, please see page B4.

**Test Coupling SMK-JIC Connection (to SAE-J514)  
SMK20-JIC Type K**



- 37° JIC fittings acc. to SAE J514
- Version A: one-piece design
- Version B: screwed design

**Metal Parts**

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

**Sealings**

For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

\* Standard option for North America is FPM (Viton®).

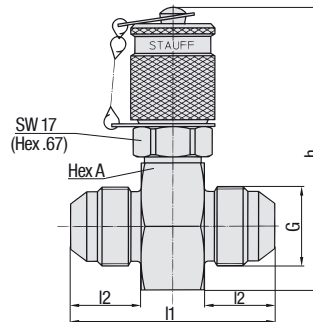
**Protection Cap**

Standard material: Steel  
 For ordering the hexagonal protection cap version please add "-SK" to the order code. (e.g. SMK20-JIC5/16-PK-SK-C6F)  
 For ordering the plastic protection cap version please add "-KK" to the order code. (e.g. SMK20-JIC5/16-PK-KK-C6F)

Pipe Ø d inch	JIC Size	Dimensions (mm/in)			Thread G	Version	Order Codes NBR	FPM* (Standard Option-North America)
		h	Hex A	Hex B				
1/4	-4	53	17	17	7/16-20 UNF	A	SMK20-JIC1/4-PK-C6F	SMK20-JIC1/4-VK-C6F
		2.09	.67	.67				
5/16	-5	53,5	17	17	1/2-20 UNF	A	SMK20-JIC5/16-PK-C6F	SMK20-JIC5/16-VK-C6F
		2.11	.67	.67				
3/8	-6	55,5	19	17	9/16-18 UNF	A	SMK20-JIC3/8-PK-C6F	SMK20-JIC3/8-VK-C6F
		2.19	.75	.67				
1/2	-8	56,5	22	19	3/4-16 UNF	A	SMK20-JIC1/2-PK-C6F	SMK20-JIC1/2-VK-C6F
		2.22	.87	.75				
5/8	-10	60	27	22	7/8-14 UNF	A	SMK20-JIC5/8-PK-C6F	SMK20-JIC5/8-VK-C6F
		2.36	1.06	.87				
3/4	-12	70,5	32	-	1-1/16-12 UN	B	SMK20-JIC3/4-PK-GS-C6F	SMK20-JIC3/4-VK-GS-C6F
		2.78	1.26	-				
1	-16	69	38	-	1-5/16-12 UN	B	SMK20-JIC1-PK-GS-C6F	SMK20-JIC1-VK-GS-C6F
		2.72	1.50	-				
1-1/4	-20	73,5	50	-	1-5/8-12 UN	B	SMK20-JIC1-1/4-PK-GS-C6F	SMK20-JIC1-1/4-VK-GS-C6F
		2.89	1.97	-				
1-1/2	-24	76	60	-	1-7/8-12 UN	B	SMK20-JIC1-1/2-PK-GS-C6F	SMK20-JIC1-1/2-VK-GS-C6F
		2.99	2.36	-				

For further information on materials, sealings or protection caps, please see page B4.

**Test Coupling SMK-JIC Connection (to SAE-J514)  
SMK20-JIC Type G**



- 37° JIC fittings acc. to SAE J514

**Metal Parts**

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

**Sealings**

For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

\* Standard option for North America is FPM (Viton®).

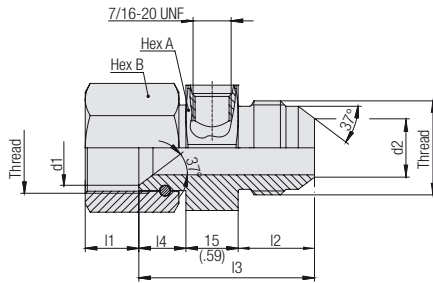
**Protection Cap**

Standard material: Steel  
 For ordering the hexagonal protection cap version please add "-SK" to the order code. (e.g. SMK20-JIC5/16-PG-SK-C6F)  
 For ordering the plastic protection cap version please add "-KK" to the order code. (e.g. SMK20-JIC5/16-PG-KK-C6F)

Pipe Ø d inch	JIC Size	Dimensions (mm/in)				Thread G	Order Codes NBR	FPM* (Standard Option-North America)
		I1	I2	h	Hex A			
1/4	-4	43	14	61	24	7/16-20 UNF	SMK20-JIC1/4-PG-C6F	SMK20-JIC1/4-VG-C6F
		1.69	.55	2.40	.94			
5/16	-5	43	14	61	24	1/2-20 UNF	SMK20-JIC5/16-PG-C6F	SMK20-JIC5/16-VG-C6F
		1.69	.55	2.40	.94			
3/8	-6	43	14	61	24	9/16-18 UNF	SMK20-JIC3/8-PG-C6F	SMK20-JIC3/8-VG-C6F
		1.69	.55	2.40	.94			
1/2	-8	48,5	16,5	67	30	3/4-16 UNF	SMK20-JIC1/2-PG-C6F	SMK20-JIC1/2-VG-C6F
		1.91	.65	2.64	1.18			
5/8	-10	53,5	19,5	67	30	7/8-14 UNF	SMK20-JIC5/8-PG-C6F	SMK20-JIC5/8-VG-C6F
		2.11	.77	2.64	1.18			
3/4	-12	59	22	73	36	1-1/16-12 UN	SMK20-JIC3/4-PG-C6F	SMK20-JIC3/4-VG-C6F
		2.32	.87	2.87	1.42			
1	-16	61	23	78	41	1-5/16-12 UN	SMK20-JIC1-PG-C6F	SMK20-JIC1-VG-C6F
		2.40	.91	3.07	1.61			
1-1/4	-20	65,5	24,5	83	46	1-5/8-12 UN	SMK20-JIC1-1/4-PG-C6F	SMK20-JIC1-1/4-VG-C6F
		2.58	.96	3.26	1.81			
1-1/2	-24	72	27,5	92	55	1-7/8-12 UN	SMK20-JIC1-1/2-PG-C6F	SMK20-JIC1-1/2-VG-C6F
		2.83	1.08	3.62	2.17			

For further information on materials, sealings or protection caps, please see page B4.

### Swivel Run Tee with JIC Connection SGV-JIC Type F/M



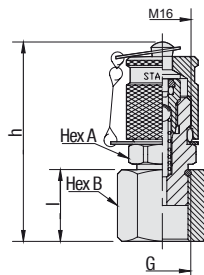
Thread	Dimensions (mm/in)								Order Codes
	inch	Ø d1	Ø d2	l1	l2	l3	l4	Hex A	
7/16-20 UNF	7,49	4,9	9	14	37	8	27	17	SGV-7/16UNF-04-JIC1/4-F/M-C6F
	.29	.19	.35	.55	1.46	.31	1.06	.67	
9/16-18 UNF	11,05	8,1	10,5	14	37,5	8,5	27	19	SGV-7/16UNF-06-JIC3/8-F/M-C6F
	.44	.32	.41	.55	1.48	.33	1.06	.75	
3/4-16 UNF	15,9	10,8	10,5	16,7	43,7	12	30	22	SGV-7/16UNF-08-JIC1/2-F/M-C6F
	.63	.43	.41	.66	1.72	.47	1.18	.87	
1-1/16-12 UN	21,6	16,9	15,4	21,9	50,4	13,5	36	32	SGV-7/16UNF-12-JIC3/4-F/M-C6F
	.85	.66	.61	.86	1.98	.53	1.42	1.26	
1-5/16-12 UN	27,9	23,2	17,3	23,1	53,1	15	41	41	SGV-7/16UNF-16-JIC1-F/M-C6F
	1.10	.91	.68	.91	2.09	.59	1.61	1.61	

#### Metal Parts

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

For further information please consult STAUFF.

### Test Coupling with ORFS Connection SMK20 Type ORFS



Thread	Dimensions (mm/in)				Order Codes	
	G	h	l	Hex A	Hex B	NBR
9/16-18 UNF	54	19	17	17	SMK20-04-ORFS-P-C6F	SMK20-04-ORFS-V-C6F
	2.1	.75	.67	.67		
11/16-16 UN	54	19	19	21	SMK20-06-ORFS-P-C6F	SMK20-06-ORFS-V-C6F
	2.1	.75	.75	.80		
13/16-16 UN	54	19	22	24	SMK20-08-ORFS-P-C6F	SMK20-08-ORFS-V-C6F
	2.1	.75	.87	.87		

#### Metal Parts

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

#### Sealings

For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

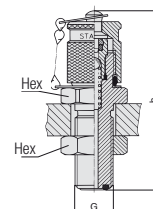
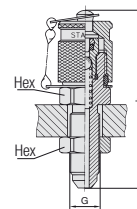
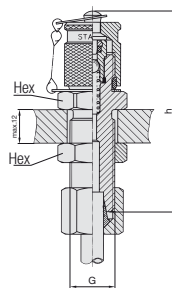
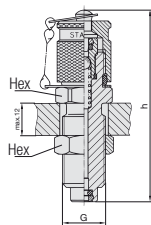
\* Standard option for North America is FPM (Viton®).

#### Protection Cap

Standard material: Steel  
 For ordering the hexagonal protection cap version please add "-SK" to the order code. (e.g. SMK20-04-ORFS-P-SK-C6F)  
 For ordering the plastic protection cap version please add "-KK" to the order code. (e.g. SMK20-04-ORFS-P-KK-C6F)

For further information on materials, sealings or protection caps, please see page B4.

**Bulkhead  
SSK20**



Version A

Version B

Version C

Version D

▪ Also available for gaseous media Type SSKK

**Threads**

\*1 Compression ring assembly 08L/ 08S/ 12L according to ISO 8434-1 / DIN 2353

\*2 JIC cone fitting according to SAE J514

\*3 O-ring face sealing according to SAE J1453

**Metal Parts**

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**

For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".

For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

**Sealings**

For ordering FPM sealings replace "P" with "V".

For ordering EPDM sealings replace "P" with "E".

\* Standard option for North America is FPM (Viton®).

**Protection Cap**

Standard material: Steel

For ordering the hexagonal protection cap version please add

"-SK" to the order code. (e.g. SKK20-P-SK-C6F)

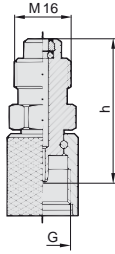
For ordering the plastic protection cap version please add

"-KK" to the order code. (e.g. SKK20-P-KK-C6F)

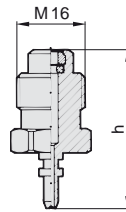
For further information on materials, sealings or protection caps, please see page B4.

Note: Standard option version B without compression ring and nut.

Thread	Dimensions (mm/in)		Version	Order Codes NBR	FPM* (Standard Option-North America)
	G	h			
M16	72	19	A	SSK20-P-C6F	SSK20-V-C6F
	2.83	.75			
M14 x 1,5*1	72	19	B	SSK20/08L-P-C6F	SSK20/08L-V-C6F
	2.83	.75			
M16 x 1,5*1	72	22	B	SSK20/08S-P-C6F	SSK20/08S-V-C6F
	2.83	.87			
M18 x 1,5*1	72	22	B	SSK20/12L-P-C6F	SSK20/12L-V-C6F
	2.83	.87			
7/16-20 UNF*2	66	17	C	SSK20/J7/16UNF-MV-P-C6F	SSK20/J7/16UNF-MV-V-C6F
	2.60	.67			
9/16-18 UNF*3	67	22	D	SSK20-04-ORFS-P-C6F	SSK20-04-ORFS-V-C6F
	2.64	.87			
11/16-16 UNF*3	72	27	D	SSK20-06-ORFS-P-C6F	SSK20-06-ORFS-V-C6F
	2.83	1.06			
13/16-16 UNF*3	75	30	D	SSK20-08-ORFS-P-C6F	SSK20-08-ORFS-V-C6F
	2.95	1.18			

**Adaptor  
SAD20**


Version A



Version B



Thread	Dimensions (mm/in)	Version	Order Codes	
			NBR	FPM* (Standard Option-North America)
G	h			
M16 x 1,5	39 1.54	A	SAD20/15-P-C6F	SAD20/15-V-C6F
S12*1	39 1.54	A	SAD20/12-P-C6F	SAD20/12-V-C6F
Plug in	37 1.46	B	SAD20/10-P-C6F	SAD20/10-V-C6F

**Threads**

\*1 Special thread: buttress thread S12.65 x1,5

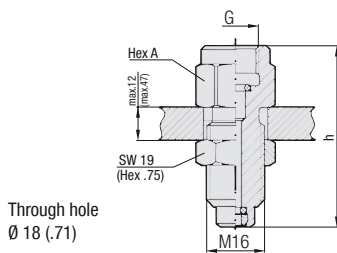
**Metal Parts**

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

**Sealings**

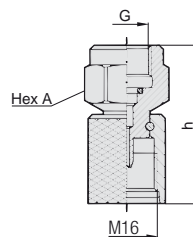
For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

\* Standard option for North America is FPM (Viton®).

**Gauge Adaptor SMA20    Direct Gauge Adaptor SMD20**


Through hole  
Ø 18 (.71)

Gauge Adaptor SMA20



Direct Gauge Adaptor SMD20



Thread	Dimensions (mm/in)		Order Codes	
	h	Hex A	NBR	FPM* (Standard Option-North America)
G1/4	54 2.13	19 .75	SMA20-G1/4-P-OR-C6F	SMA20-G1/4-V-OR-C6F
G1/2	64 2.52	27 1.06	SMA20-G1/2-P-OR-C6F	SMA20-G1/2-V-OR-C6F
1/4 NPT	54 2.13	19 .75	SMA20-1/4NPT-P-C6F	SMA20-1/4NPT-V-C6F
1/2 NPT	64 2.52	27 1.06	SMA20-1/2NPT-P-C6F	SMA20-1/2NPT-V-C6F
9/16-18 UNF	57 2.24	19 .75	SMA20-9/16UNF-P-C6F	SMA20-9/16UNF-V-C6F
G1/4	41 1.61	19 .75	SMD20-G1/4-P-OR-C6F	SMD20-G1/4-V-OR-C6F
G1/2	51 2.01	27 1.06	SMD20-G1/2-P-OR-C6F	SMD20-G1/2-V-OR-C6F
1/4 NPT	41 1.61	19 .75	SMD20-1/4NPT-C6F	
1/2 NPT	51 2.01	27 1.06	SMD20-1/2NPT-C6F	
7/16-20 UNF	41 1.61	19 .75	SMD20-7/16UNF-C6F	

**Metal Parts**

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**  
 For ordering V2A (1.4305 / AISI 303) replace "C6F" with "V2A".  
 For ordering V4A (1.4571 / AISI 316Ti) replace "C6F" with "V4A".

**Sealings**

For ordering FPM sealings replace "P" with "V".  
 For ordering EPDM sealings replace "P" with "E".

\* Standard option for North America is FPM (Viton®).

Snubber on request.



Port Connections and Sealing Details

<p><b>Type A</b></p>	<p>Type A - Threaded port according to factory standard Sealing: O-ring Type A</p>			
	Thread	Dimensions (mm/in)		
G	d1 +0,1	t1 min.	t2 min	
M8 x 1	9,5 .37	11 .43	15,5 .61	
M10 x 1	11,5 .45	12 .47	16,5 .64	

<p><b>Type B and C</b></p>	<p>Type B and C - Threaded port type X acc. to DIN 3852 Part 1 and 2; ISO 9974-1 (metric); ISO 1179-1 (inch) Sealing: Metal joint Type B / Elastomeric sealing Type C</p>				
	Thread	Dimensions (mm/in)			
G	d1 min.	t1 min.	t2 min.	a max.	
M10 x 1	15 .59	8 .31	10 .39	1 .04	
M12 x 1,5	18 .71	12 .47	15 .59	1,5 .06	
M14 x 1,5	20 .79	12 .47	15 .59	1,5 .06	
M16 x 1,5	23 .91	12 .47	15 .59	1,5 .06	
M18 x 1,5	25 .98	12 .47	15 .59	2 .08	
M20 x 1,5	27 1.06	14 .55	17 .67	2 .08	
M22 x 1,5	28 1.10	14 .55	17 .67	2,5 .10	
G1/8	15 .59	8,5 .33	10,5 .41	1 .04	
G1/4	20 .79	12,5 .49	15,5 .61	1,5 .06	
G3/8	23 .91	12,5 .49	15,5 .61	2 .08	
G1/2	28 1.10	14,5 .57	18,5 .73	2,5 .10	

<p><b>Type D</b></p>	<p>Type D - Parallel threaded port type Z according to DIN 3852 Part 2 (inch) Sealing: Taper Type D suitable sealant required</p>		
	Thread	Dimensions (mm/in)	
G	t1 min.	t2 min.	
Rp1/8	5,5 .22	9,5 .37	
Rp1/4	8,5 .33	13,5 .53	
Rp3/8	8,5 .33	13,5 .53	
Rp1/2	10,5 .41	16,5 .65	

## Port Connections and Sealing Details

Type D	Type D - Taper threaded port according to ANSI/ASME B1.20.1-1983 (NPT) Sealing: Taper Type D suitable sealant required		
	Thread	Dimensions (mm/in)	
	<b>G</b>	<b>t1 min.</b>	<b>t2 min.</b>
	1/8-27 NPT	6,9 .27	11,6 .46
	1/4-18 NPT	10 .39	16,4 .65
	1/2-14 NPT	13,6 .54	22,6 .89

Type E	Type E - Threaded port according to ISO 6149-1 (metric); ISO 11926-1 (UNF) Sealing: O-ring Type E							
	Thread	Dimensions (mm/in)						
	<b>G</b>	<b>d1 +0,1</b>	<b>d2 min.</b>	<b>t1 min.</b>	<b>t2 min.</b>	<b>a +0,4</b>	<b>b max.</b>	<b>z° ±1°</b>
	M10 x 1	11,1 .44	16 .63	10 .39	11,5 .45	1,6 .06	1 .04	12°
	M12 x 1,5	13,8 .54	19 .75	11,5 .45	14 .55	2,4 .09	1,5 .06	15°
	M14 x 1,5	15,8 .62	21 .83	11,5 .45	14 .55	2,4 .09	1,5 .06	15°
	M16 x 1,5	17,8 .70	24 .94	13 .51	15,5 .61	2,4 .09	1,5 .06	15°
	M22 x 1,5	23,8 .94	29 1.14	15,5 .61	18 .71	2,4 .09	2 .08	15°
	M27 x 2	29,4 1.16	34 1.34	19 .75	22 .87	3,1 .91	2 .08	15°
	5/16-24 UNF	9,1 .36	17 .67	10 .39	12 .47	1,9 .07	1,6 .06	12°
	7/16-24 UNF	12,4 .49	21 .83	11,5 .45	14 .55	2,4 .09	1,6 .06	12°
	1/2-20 UNF	14 .55	23 .91	11,5 .45	14 .55	2,4 .09	1,6 .06	12°
	9/16-18 UNF	15,65 .62	25 .98	12,7 .50	15,5 .61	2,5 .10	1,6 .06	12°
	7/8-14 UNF	23,95 .94	34 1.34	16,7 .66	20 .79	2,5 .10	2,4 .09	15°